



IN THE CLAIMS

Claims 1 through 21: **Cancelled**

20. 22. (Currently Amended) A building construction for protection from radiation, said construction comprising at least one building components having a layered sandwich configuration wherein at least one layer of gypsum antiradiation material is between opposite layers of concrete.

21. 23. (Currently Amended) The building construction of claim **20 22.**, wherein said gypsum antiradiation material comprises water bound thereto.

22. 24. (Currently Amended) The building construction of claim **21 23.**, wherein said gypsum antiradiation material comprises natural, unfired calcium sulfate dihydrate.

23. 25. (Currently Amended) The building construction of claim **20 22.**, wherein said gypsum antiradiation material comprises panels deposited in a space between said concrete layers.

24. 26. (Currently Amended) The building construction of claim **23 25.**, wherein said gypsum panels are free-standing in said space.

25. 27. (Currently Amended) The building construction of claim **23 25.**, wherein said gypsum panels are permanently set in said space.

26. 28. (Currently Amended) The building construction of claim **20 22.**, wherein said gypsum antiradiation material comprises granulated gypsum particles poured into a space between said concrete layers.

27. 29. (Currently Amended) The building construction of claim **26 28.**, wherein said gypsum particles have a particle size of about 40 mm or smaller.

28. 30. (Currently Amended) The building construction of claim 20 22, wherein said gypsum antiradiation material is compressed into a space between said concrete layers.

29. 31. (Currently Amended) The building construction of claim 20 22, further comprising at least one additive selected from the group of gibbsite, hydragilite, aluminum hydrate, and magnesium added to said gypsum antiradiation material.

30. 32. (Currently Amended) The building construction of claim 20 22, further comprising at least one construction component comprising an antiradiation material poured and compressed between a pit sheet wall and a concrete layer.

31. 33. (Currently Amended) The building construction of claim 20 22, wherein at least one of said concrete layers comprises a double-wall structure.

32. 34. (Currently Amended) The building construction of claim 31 33, wherein said double-wall structure is filled with poured concrete.

33. 35. (Currently Amended) The building construction of claim 32 34, wherein said poured concrete further comprises an antiradiation additive.

34. 36. (Currently Amended) The building construction of claim 20 22, wherein each of said concrete layers comprise a double-wall structure, said gypsum antiradiation material disposed between said double-wall structures.

35. 37. (Currently Amended) The building construction of claim 34 36, wherein each of said double-wall structures comprises wall segments connected together with tie rods extending between said wall segments.

36. 38. (Currently Amended) The building construction of claim 34 36, wherein each of said double-wall structures comprises prefabricated concrete panels connected together with lattice girders.

37. 39. (Currently Amended) The building construction of claim 36 38, wherein said lattice girders are formed of a corrosion resistant steel.

38. 40. (Currently Amended) The building construction of claim 20 22, further comprising a layer of antiradiation material beneath said building construction that has sufficient structural integrity for supporting said building construction.